

Datasheet for ABIN7554366  
**KLHL25 Protein (AA 1-589) (His tag)**



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## Overview

Quantity:	1 mg
Target:	KLHL25
Protein Characteristics:	AA 1-589
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KLHL25 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant KLHL25 Protein expressed in mammalian cells.
Sequence:	<p>MSVSVHETRK SRSSTGSMNV TLFHKASHPD CVLAHLNLT LR KHCMFTDVTL WAGDRAFPCH RAVLAASSRY FEAMFSHGLR ESRDDTVNFQ DNLHPEVLEL LLDFAYSSRI AINEENAESL LEAGDMLQFH DVRDAAAEFL EKNLFPSNCL GMMLLSDAHQ CRRLYEFSWR MCLVHFETVR QSEDFNSLSK DTLDDLISD ELETEDERVV FEAILQWVKH DLEPRKVHLP ELLRSVRLAL LPSDCLQEAV SSEALLMADE RTKLIMDEAL RCKTRILQND GVVTPSPCARP RKAGHTLLIL GGQTFMCDKI YQVDHKAKEI IPKADLPSPR KEFSASAIGC KVVYVTGGRGS ENGVSKDVVW YDTVHEEWSK AAPMLIARFG HGSAELENCL YVVGHTSLA GVFPASPSVS LKQVEKYDPG ANKWMMVAPL RDGVSNAAVV SAKLKLFFVG GTSIHRDMVS KVQCYDPSN RWTIKAECPO PWRYTAAAVL GSQIFIMGGD TEFTAASAYR FDCETNQWTR IGDMTAKRMS CHALASGNKL YVVGGYFGTQ RCKTLDCYDP TSDTWNCITT VPYSLIPTAF VSTWKHLPA <b>Sequence without tag.</b></p> <p><b>The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a</b></p>

## Product Details

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### **special request, please contact us.**

**Specificity:** If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

**Characteristics:** **Key Benefits:**

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

**Purity:** > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

**Grade:** custom-made

## Target Details

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**Target:** KLHL25

**Alternative Name:** KLHL25 ([KLHL25 Products](#))

**Background:** Kelch-like protein 25 (Ectoderm-neural cortex protein 2) (ENC-2),FUNCTION: Substrate-specific adapter of a BCR (BTB-CUL3-RBX1) E3 ubiquitin ligase complex involved in various processes, such as translation homeostasis and lipid synthesis (PubMed:22578813, PubMed:27664236, PubMed:34491895). The BCR(KLHL25) ubiquitin ligase complex acts by mediating ubiquitination of hypophosphorylated EIF4EBP1 (4E-BP1): ubiquitination and subsequent degradation of hypophosphorylated EIF4EBP1 (4E-BP1) probably serves as a homeostatic mechanism to maintain translation and prevent eIF4E inhibition when eIF4E levels are low (PubMed:22578813). The BCR(KLHL25) complex does not target EIF4EBP1 (4E-BP1) when it is hyperphosphorylated or associated with eIF4E (PubMed:22578813). The BCR(KLHL25) complex also acts as a regulator of lipid synthesis by mediating ubiquitination and degradation

## Target Details

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of ACLY, thereby inhibiting lipid synthesis (PubMed:27664236, PubMed:34491895).

BCR(KLHL25)-mediated degradation of ACLY promotes fatty acid oxidation and is required for differentiation of inducible regulatory T (iTreg) cells (PubMed:34491895).

{ECO:0000269|PubMed:22578813, ECO:0000269|PubMed:27664236, ECO:0000269|PubMed:34491895}.

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Molecular Weight: 65.9 kDa

UniProt: [Q9H0H3](#)

## Application Details

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Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

## Handling

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Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months